P-014

Police Modifier Bulletin

SVE BULLETIN

SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

E-Mail via website: www.fleet.ford.com/truckbbas (click "Contact Us")
Toll-free: (877) 840-4338

Date: 27 November, 2012

2013 Utility Interceptor Ready-for-the-Road Option (67H)

Models Affected
2013 Utility Interceptors with Ready-for-the-Road Option (67H) beginning Job #1 2013MY.

Purpose
This bulletin provides Ready-for-the-Road Option (67H) content description and wiring information.

Ready-for-the-Road Option (67H) Content Summary

Ford-installed Police options are fully compliant with the United States Federal Motor Vehicle (FMVSS) and Canadian Motor Vehicle Safety Standards.

Electrical systems and power distribution circuits meet Ford Motor Company requirements. All power circuits have grounds that are designed integral to the vehicle and chassis design per Ford Motor company requirements.

Ready-for-the-Road Option (67H) Content Summary

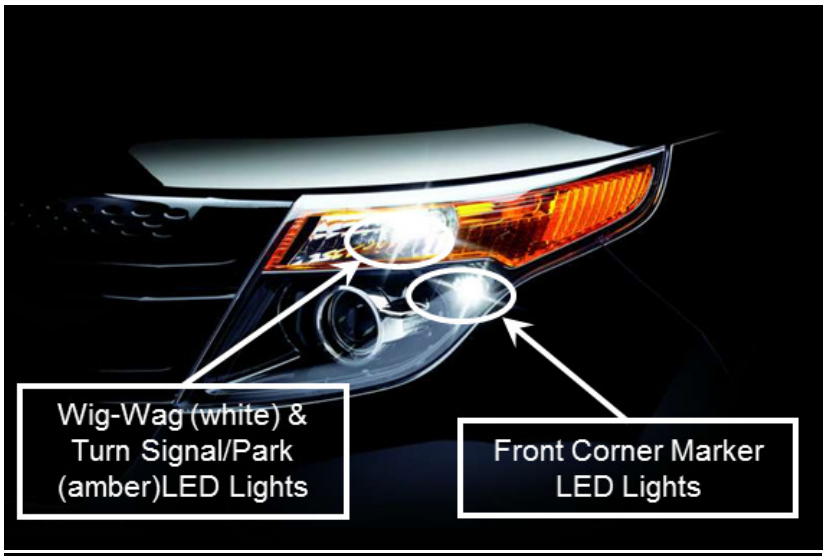
Feature Description	Package 67H	See Page
Two (2) flashing front corner LED lights, one (1) in each headlight assembly.	X	4
Two (2) flashing LED wig-wag(white light)/Park(amber light)/Turn Signal(amber light) lights, one (1) in each headlight assembly replacing the Park/Turn indicator lights	X	4
Two (2) flashing LED grille lights. Red LED light on driver side light and blue LED light on passenger side is standard color configuration. Optional LED light colors are available through VSO options.	X	5
Two (2) flashing LED tail lamps, one (1) in each tail lamp assembly. White LED lights on driver side and passenger sides are standard color configuration. Optional LED light colors are available through VSO options.	X	6
Two (2) flashing LED liftgate window lights, with matching interior color shrouds (Charcoal). Red LED light on driver side and blue LED light on passenger side is standard color configuration. Optional LED light colors are available through VSO options.	X	6
Two (2) flashing LED lights on bottom edge of liftgate, visible when liftgate is open. Red LED light on driver side and blue LED light on passenger side is standard color configuration. Optional LED light colors are available through VSO options.	X	7
Wire Harness includes the following:		
• **Two (2) 50 amp fused lines** from underhood Battery Junction Box (BJB) fed to cargo area location on passenger side behind trim panel, corresponding ground located on sheet metal near termination point of two (2) 50 amp fused lines.	X	28
• **14-way (gray) connector,** behind trim cover panel at bottom of center stack containing following power and vehicle signals: o B+ Feed #1 (20 Amp) – from Instrument Panel (IP) o Police 4 Button Controller – Button 1 Output – Switched Ground o Police 4 Button Controller – Button 2 Output – Switched Ground o Police 4 Button Controller – Button 3 Output – Switched Ground o Police 4 Button Controller – Button 4 Output – Switched Ground o Police Fused Start Feed (2 Amp) o Police Fused Run/Start Feed #1 (20 Amp) o B+ Feed #2 (20 Amp) o Vehicle Speed Output o Delayed Accessory (15 Amp) - from Instrument Panel (IP) o B+ Feed #3 (15 Amp) – from Instrument Panel (IP) o Park Detect - Shifter o Driver Door Ajar – from Instrument Panel (IP) o Police Fused Run/Start Feed #2 (20 Amp) – from Instrument Panel (IP)	X	18
• **6-way (gray) connector**, behind trim cover panel at bottom of center stack containing following power and grounds: o Three (3) 40 Amp Fused Circuits from underhood BJB o Three (3) Corresponding Instrument Panel Tunnel Ground	X	18
• **Siren Speaker 4-Way Connector** o Passenger compartment connector located below instrument panel behind driver side trim cover panel at bottom of center stack (see photo) o Underhood connector location is driver side of engine compartment below headlight assembly near vehicle horn assembly	X	20

Ready-for-the-Road Option (67H) Content Summary

Feature Description	Package 67H	See Page
• **14-way (white) connector,** taped to harness behind the center stack trim cover panel on the passenger side in the opening the center stack area below the instrument panel containing the following: o Front Wig-Wag Control o Front Wig-Wag Flasher Power o Loudspeaker (-) - pass-through from trunk to underhood OEM speaker location (driver side behind front fascia below headlight hear vehicle horns) o Loudspeaker (+)(-) - pass-through from trunk to underhood OEM speaker location (driver side behind front fascia below headlight hear vehicle horns o Dimmer Circuit o Front Corner LED Lights Power o Front Corner LED Lights Ground o Front Corner LED Lights Flash Pattern o Front Corner LED Lights SYNCH o Brake Output – from Instrument Panel (IP)	X	21
• **Horn Ring Circuit,** ground side loop of horn ring circuit from Body Control Module (BCM) violet-green wire loop taped to harness from above the opening under the center stack area of the instrument panel	X	22
Pre-wire for grille lamp, siren and speaker, electrical harness inlay (14290); inlay includes (2) light connectors that support up to (3) LED lights each (in engine compartment), (1) grille LED light connector that supports 2 LED lights, and one front driver's side speaker siren cable	X	32
Rear Console Mounting Plate, mounts to rear of front console mounting plate and proceeds rearward on top of the driveline tunnel to and partially under the second row seat (acting as wiring channel through towards the trunk)	X	7
Trunk Circulation Fan, wired to run under ignition power and circulates air from the cabin into the trunk		
Trunk Electronics Tray, aluminum with dual lever release; latches in the stowed position and the open/most rearward position		
Trunk Storage Vault, lockable, located on driver side of trunk well		
Hidden Door Lock Plunger, manual lock rod extending horizontally from rear passenger door accessible to from first row driver position or first row passenger seating position	X	8
100-watt Siren/Speaker, plus wire and connector	X	9
Police Power Control Center and Control Head/Switches, includes controller, control head (push buttons & switch lever) and cable. Located behind driver side 2nd row seat under hinged floor panel	X	10
Microphone, includes cable	X	11

Police Headlamps

- **One Corner Marker LED Light in each headlamp assembly**
  - Standard LED corner marker light is white LED light – LED light color options available through Vehicle Special Order (VSO) option
  - Headlamp assemblies with pre-formed holes have ¼-turn locking feature - one corner LED light in each headlamp module
- **Multi-function LED Park/Turn Signal/Wig-Wag bulb** in each headlamp assembly that contains both white LEDs for wig-wag function and amber LEDs for park/turn signal function.
  - This bulb replaces turn signal bulb –(turn signal connector assembly is shipped loose in the vehicle for replacement at time of decommissioning vehicle)
- Lights are wired complete and fully functional as vehicle is delivered
- When the turn signal is activated with wig-wag function "on", turn signal overrides the wig-wag function only for the wig-wag bulb indicating the direction of the turn signal
  - Activating the turn signal for a left hand turn with wig-wags turned on will cause the driver side wig-wag bulb to turn off while the amber driver side turn signal flashes indicating direction of turn. The passenger side wig-wag LED remains flashing. When turn is complete, turn signal indicator is turned "off" and the wig-wag function resumes
  - Activating the turn signal for a right hand turn with wig-wags turned on will cause the passenger side wig-wag bulb to turn off while the amber passenger side turn signal flashes indicating direction of turn. The driver side wig-wag LED remains flashing. When turn is complete, turn signal indicator is turned "off" and the wig-wag function resumes



Grille LED Lights

- Two high intensity LED lights mounted behind the grille in the upper front fascia opening– one on left hand side and one on right hand side
- Red LED on driver side and blue LED on passenger side – (LED light color options available through Vehicle Special Order (VSO) option
- Lights are wired complete and fully functional as vehicle is delivered

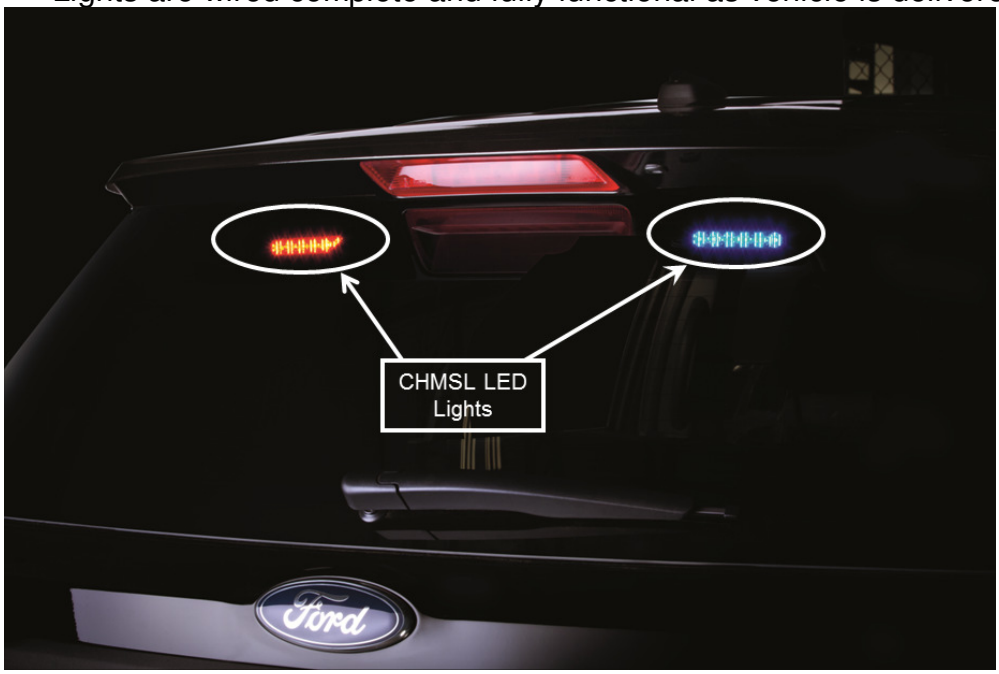
Ready-for-the-Road Option (67H) Content Description

Police Taillamps

- **Taillamp Assemblies with Rear Corner LED Marker Light with ¼-turn locking pre-formed holes for one rear corner LED light in each taillamp assembly**
  - One red LED light in each taillamp is standard behind red lens – color options not available for rear corner taillamps due to red lens
- Lights are wired complete and fully functional as vehicle is delivered

Police Rear Window Lighting

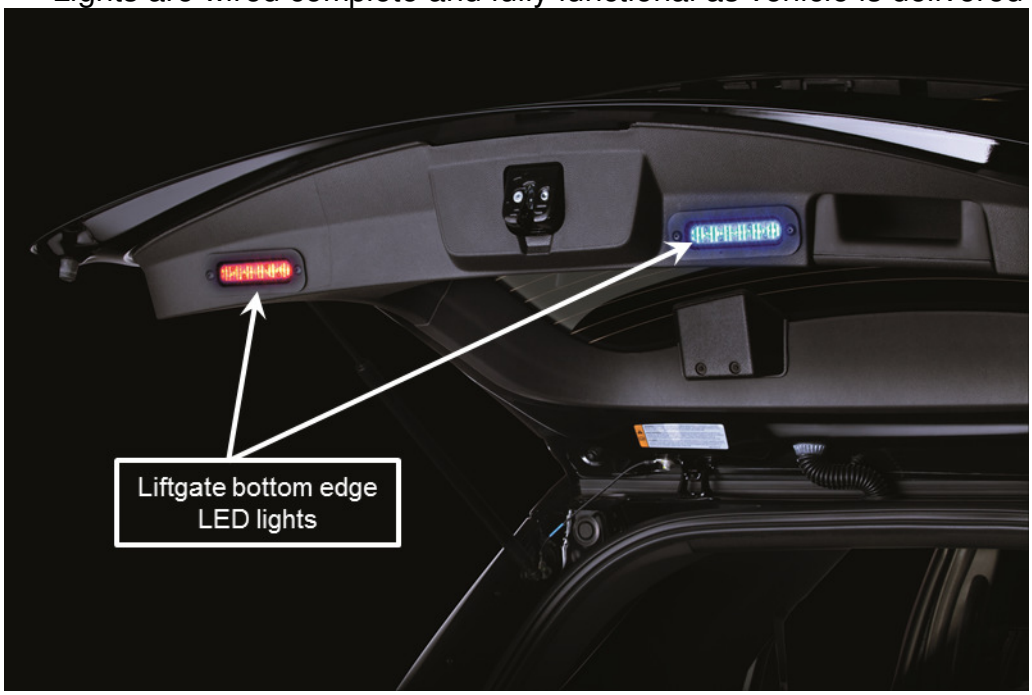
- **Two shrouded LED lights – one on either side of brake light** on inside of upper rear window
  - Red LED on driver side of brake light and Blue LED on passenger side of brake light are standard – LED light color options available through Vehicle Special Order (VSO) option
  - Shrouds prevent LED light back flash off rear window
- Lights are wired complete and fully functional as vehicle is delivered



Ready-for-the-Road Option (67H) Content Description

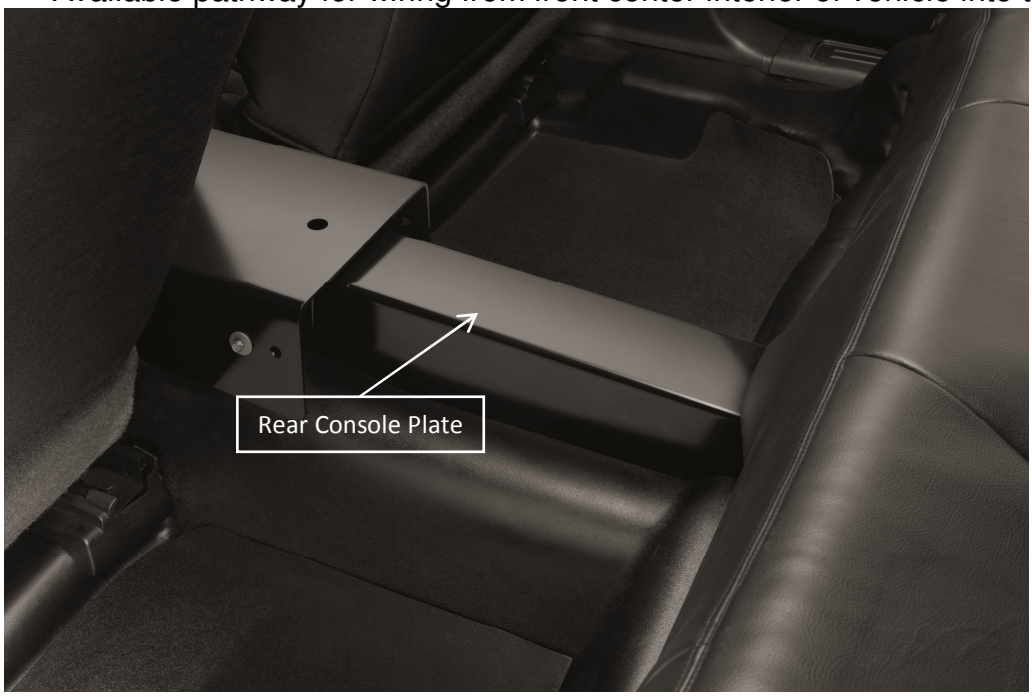
Police Trunk Lighting

- **Two LED Lights – one on either side of bottom edge on liftgate**
  - Red LED on driver side of inner trunk lid and blue LED on passenger side of inner trunk lid – (LED light color options available through Vehicle Special Order (VSO) option
- Lights are wired complete and fully functional as vehicle is delivered when trunk lid is open



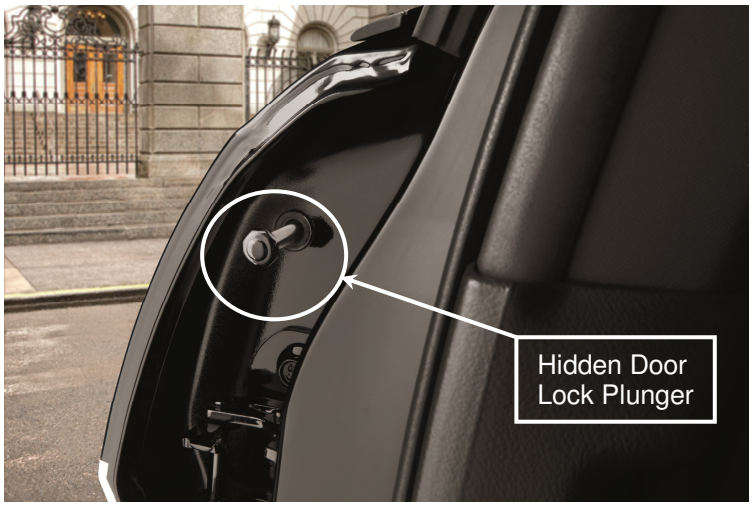
Rear Console Plate

- Channel that interfaces with the rear opening of the front console mounting plate and runs rearward on top of driveline tunnel extending under the second row seat
- Available pathway for wiring from front center interior of vehicle into trunk area



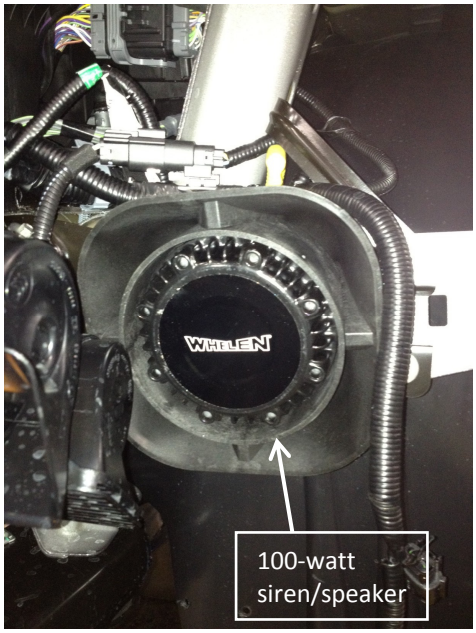
Hidden Door Lock Plunger

- For added security, manual door lock rod for each rear door extending toward front of vehicle for external access and operation from driver and front passenger positions
- 2nd row *inside* door handles are inoperable
- 2nd row *external* door handles operable
- Driver seat power door lock control operates as “master” control for all door locks



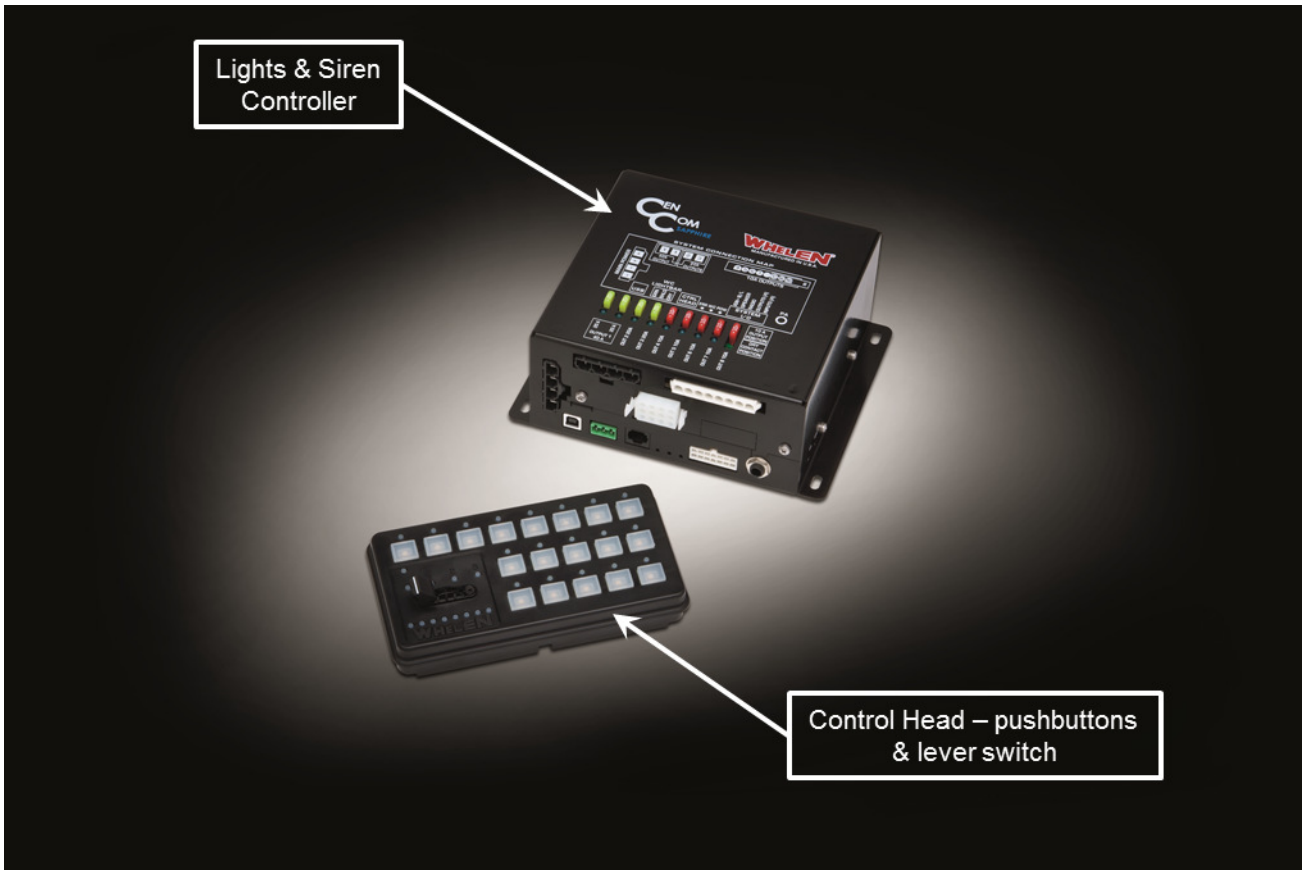
Siren/Speaker

- 100-watt siren/speaker
- Mounted below driver side headlight near vehicle horns behind front fascia
- Siren is wired complete and fully functional as vehicle is delivered



Lighting Control System

- Lightbar Function Support – upfit will need Whelen connector part #: 01-0418452-00
- Relay control center mounted on driver side of trunk tray with following functions:



Control Head

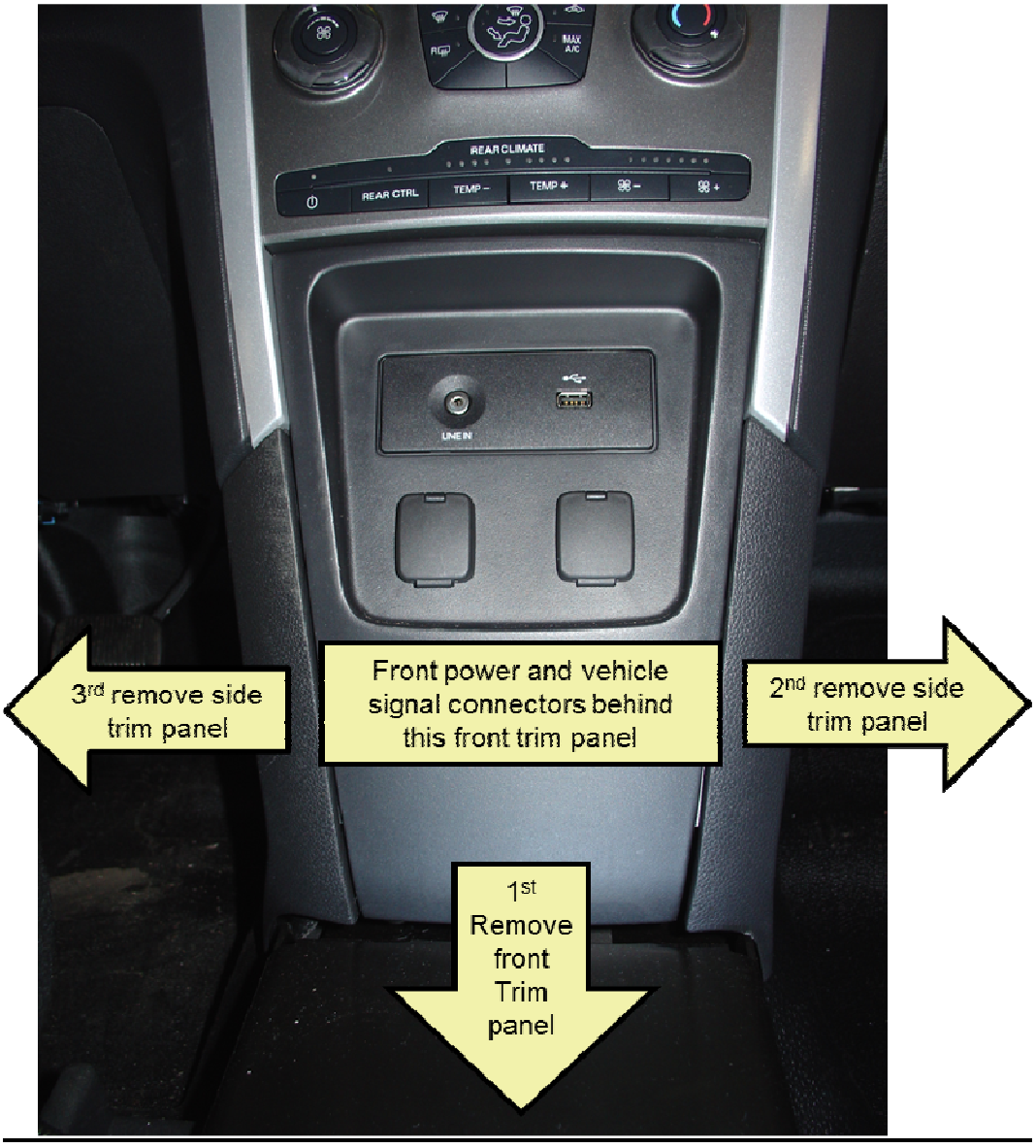
- Push buttons and lever switch
- Push button labels lever switch may not represent programmed configurations for all vehicles
- Verify the configuration/program for the push buttons and lever switch prior to operating the vehicle

Microphone

- Microphone shipped loose in box

Front Power and Vehicle Signal Access Area

- **Located behind lower center instrument panel trim panels**
- **See following pages for removal and installation**


REAR CLIMATE
REAR CTRL
TEMP –
TEMP +
LINE IN
3rd remove side trim panel
Front power and vehicle signal connectors behind this front trim panel
2nd remove side trim panel
1st Remove front Trim panel

Disconnect battery prior to removing panels

General Procedure

WARNING: Batteries contain sulfuric acid and produce explosive gases. Work in a well-ventilated area. Do not allow the battery to come in contact with flames, sparks or burning substances. Avoid contact with skin, eyes or clothing. Shield eyes when working near the battery to protect against possible splashing of acid solution. In case of acid contact with skin or eyes, flush immediately with water for a minimum of 15 minutes, then get prompt medical attention. If acid is swallowed, call a physician immediately. Failure to follow these instructions may result in serious personal injury.

WARNING: Always deplete the backup power supply before repairing or installing any new front or side air bag supplemental restraint system (SRS) component and before servicing, removing, installing, adjusting or striking components near the front or side impact sensors or the restraints control module (RCM). Nearby components include doors, instrument panel, console, door latches, strikers, seats and hood latches. Refer to the Description and Operation portion of Section 501-20B, of Work Shop Manual, for location of the RCM and impact sensor(s). To deplete the backup power supply energy, disconnect the battery ground cable and wait at least 1 minute. Be sure to disconnect auxiliary batteries and power supplies (if equipped). Failure to follow these instructions may result in serious personal injury or death in the event of an accidental deployment.

WARNING: Always lift a plastic-cased battery with a battery carrier or with hands on opposite corners. Excessive pressure on the battery end walls may cause acid to flow through the vent caps, resulting in personal injury and/or damage to the vehicle or battery.

WARNING: Battery posts, terminals and related accessories contain lead and lead components. Wash hands after handling. Failure to follow these instructions may result in serious personal injury.

NOTE: *When the battery is disconnected and connected, some abnormal drive symptoms may occur while the vehicle relearns its adaptive strategy. The charging system set point may also vary. The vehicle may need to be driven to relearn its strategy.*

1. Loosen the battery cable terminal nut and disconnect the negative battery cable.
    1. To connect, tighten to 9 Nm (80 lb-in).
2. **NOTE:** *When disconnecting the battery ground cable to interrupt power to the vehicle electrical system, disconnect the battery ground cable only. It is not necessary to disconnect the positive battery cable.*

   Loosen the battery cable terminal nut and disconnect the positive battery cable.
    1. To connect, tighten to 9 Nm (80 lb-in).
3. To install, reverse the removal procedure.

Remove driver side and passenger side lower center instrument panel finish panels

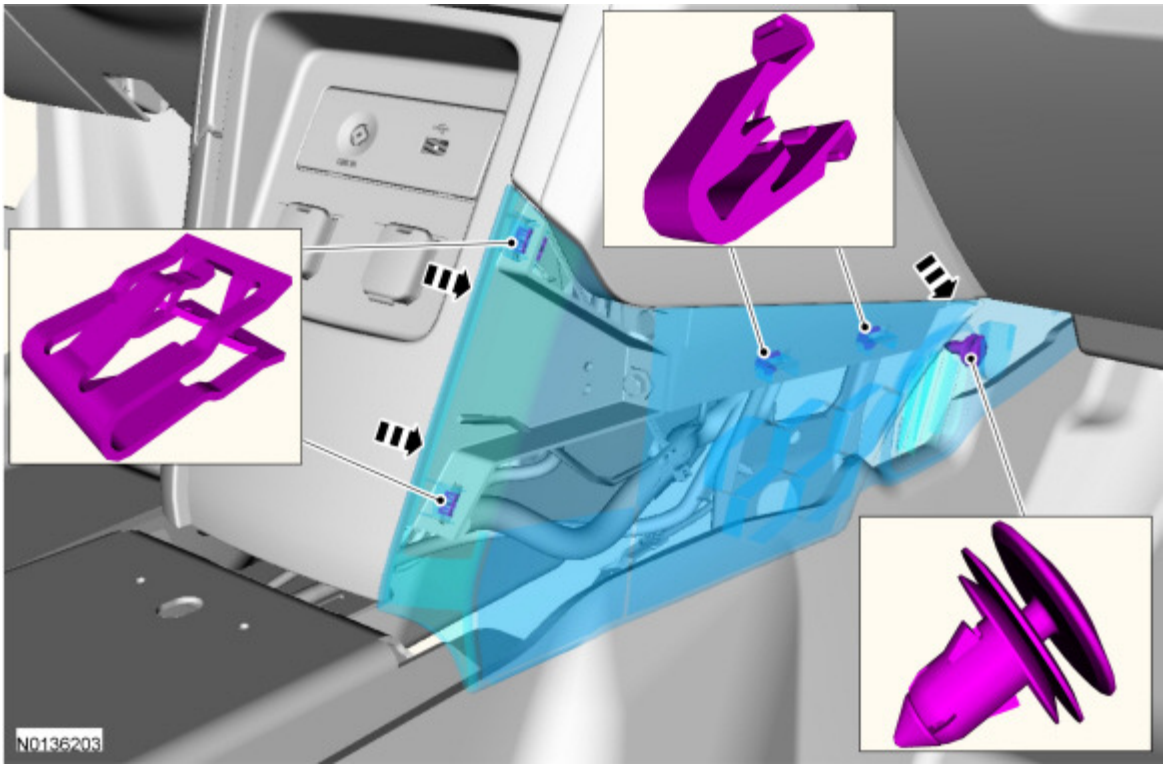
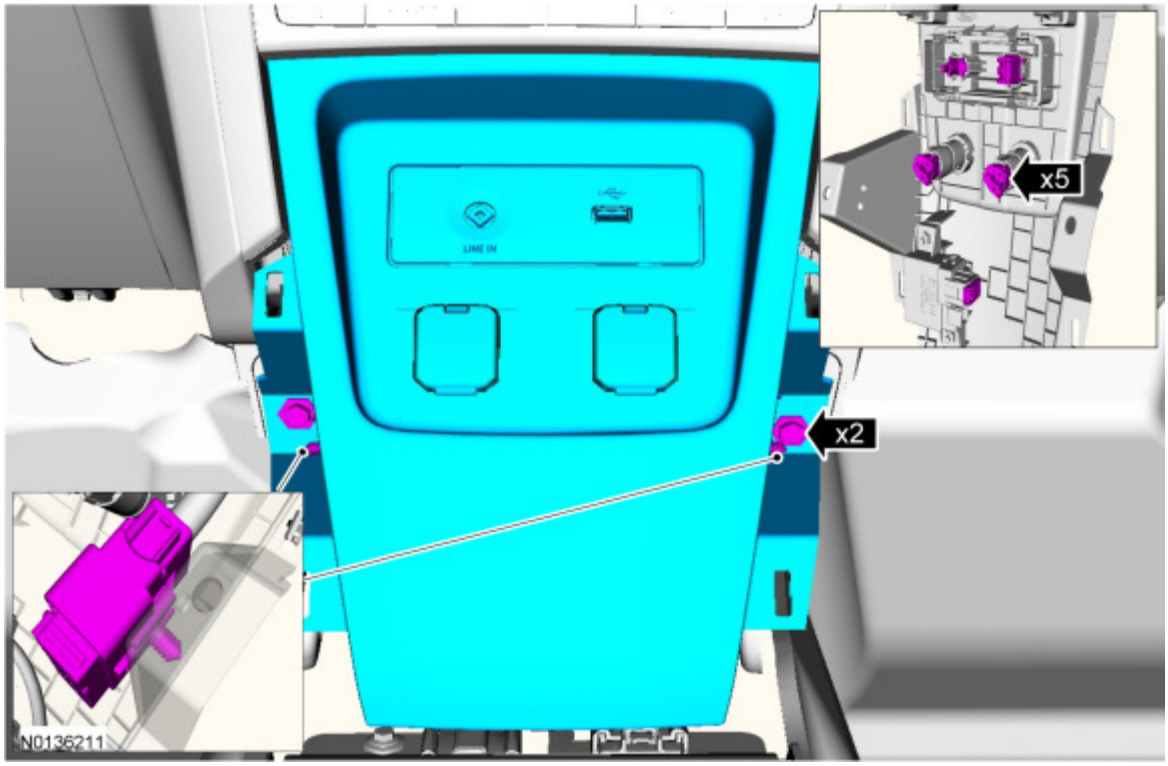


Illustration indicates location of retainers for passenger side finish panel

Repeat for driver side finish panel

Remove Passenger Side and Driver Side lower center instrument panel side panels

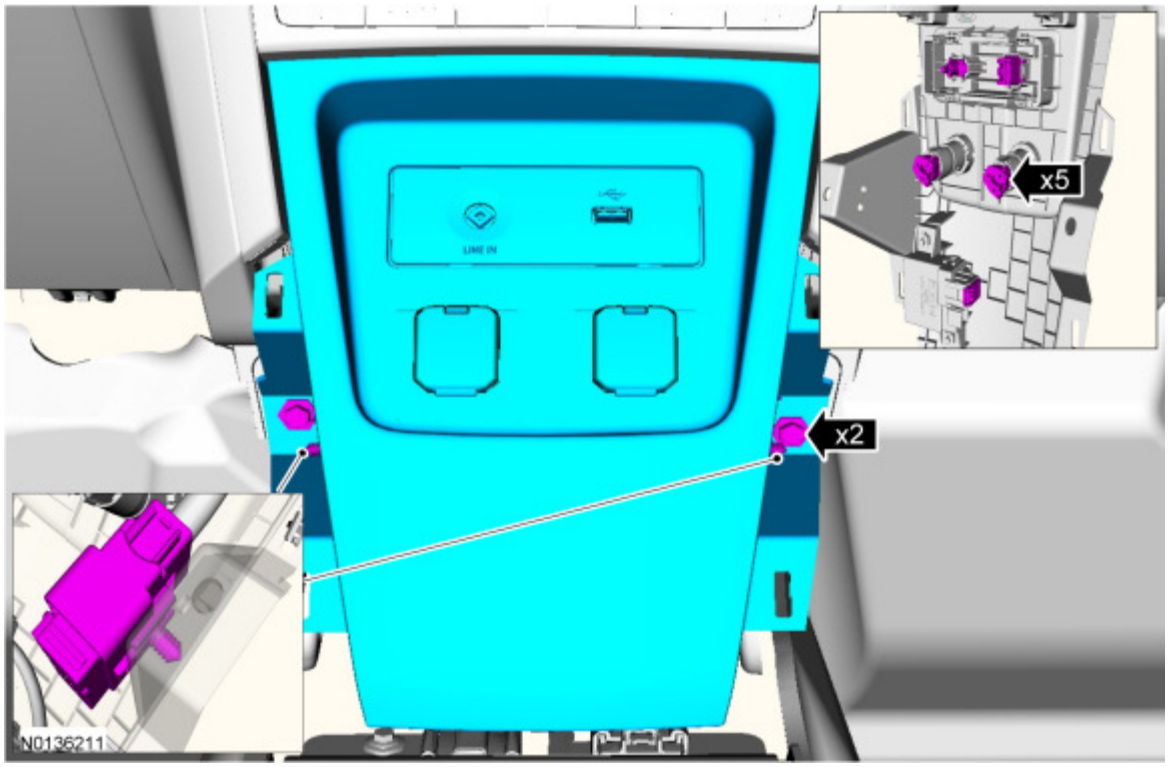


Remove the 2 fasteners

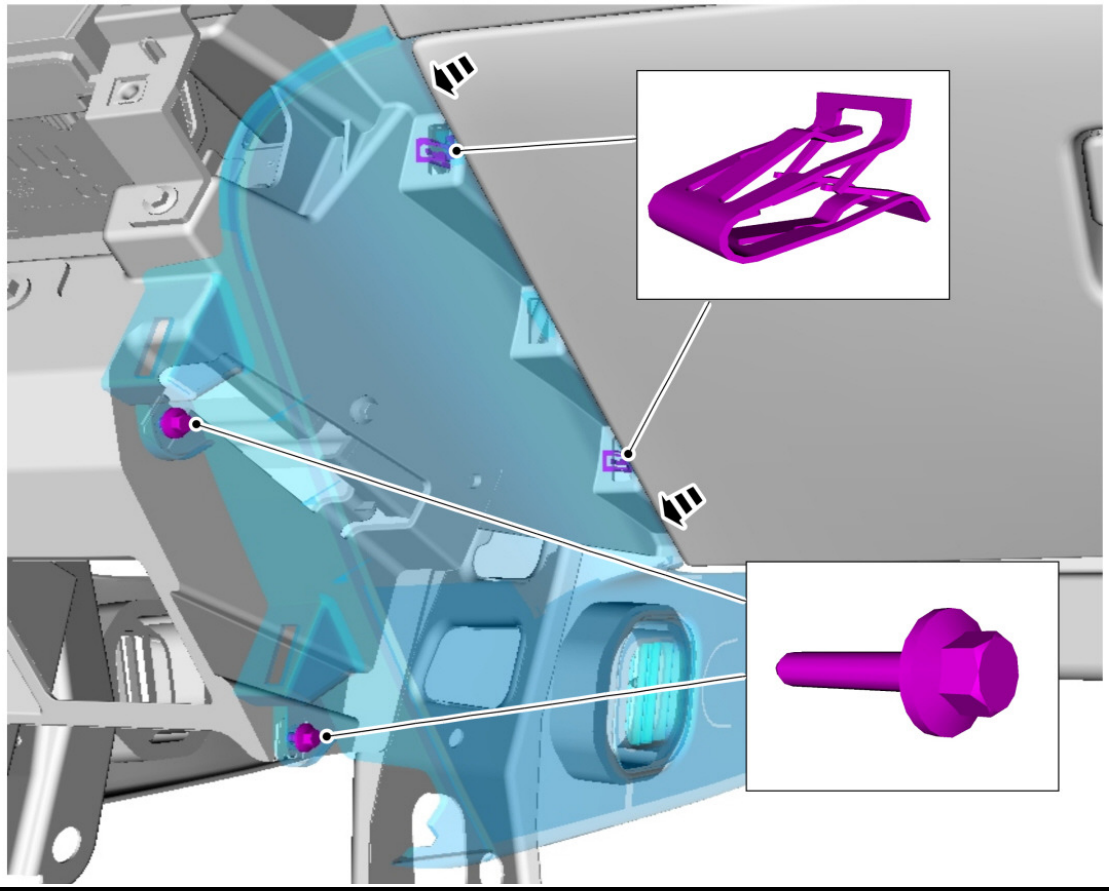
Remove panel carefully near retention clip points

Reinstall lower center instrument panel trim front panel by reversing removal procedure

- Align the center stack to the instrument panel opening and reconnect the (4) connectors. **Note: perform "push-click-push" test process to ensure each is secure**
- Align lower driver and passenger side retention tabs located on the inside of center stack panel to the corresponding notches located in the passenger and driver side lower valance panels.
- Position retention clips on the backside of the center stack to the corresponding slots in the instrument panel.
- Push the center stack in until each of the retention clips are fully engaged. Check around the periphery of the center stack to ensure it is flush to the instrument panel upon installation. **Note: Verify the lower driver side and passenger side retention tabs of center stack panel are seated into the driver side and passenger side valance panel notch locations upon installation.**
- Re-install 2 fasteners per illustration below.
- **Tighten fasteners to 3 NM (27 lb-in)**
    -

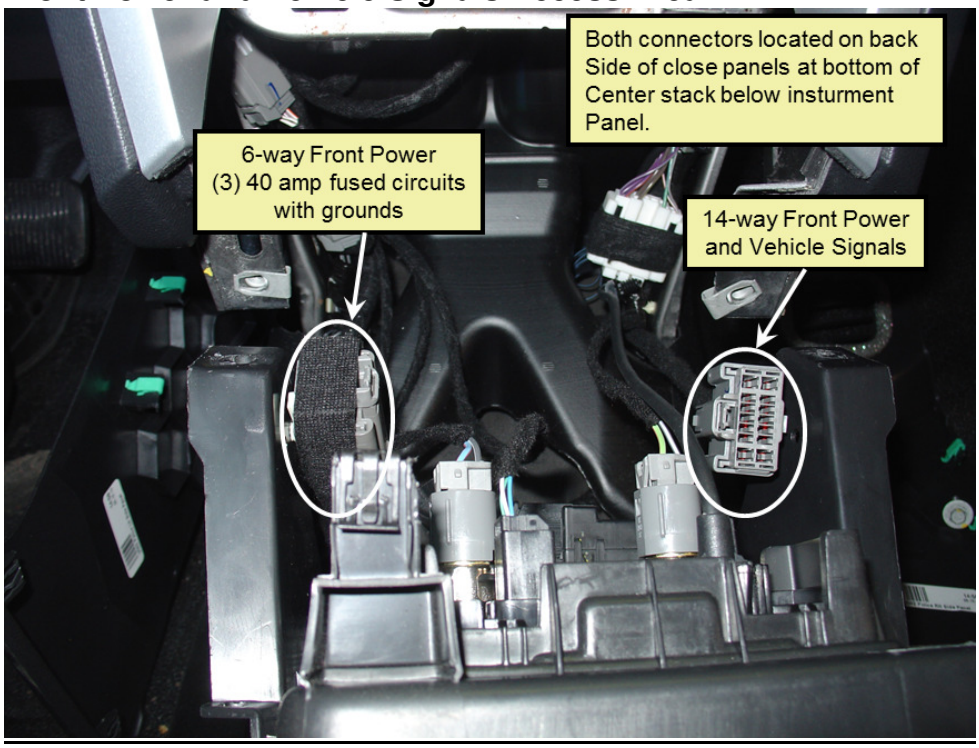


Reinstall Driver Side and Passenger Side lower center instrument panel side trim panels



Ready-for-the-Road Option (67H) Content Description

Front Power and Vehicle Signals Access Area


Both connectors located on back Side of close panels at bottom of Center stack below insturment Panel.
6-way Front Power (3) 40 amp fused circuits with grounds
14-way Front Power and Vehicle Signals

14-Way Front Power & Vehicle Signals

Part #: 3U2Z-14S411-BJAC

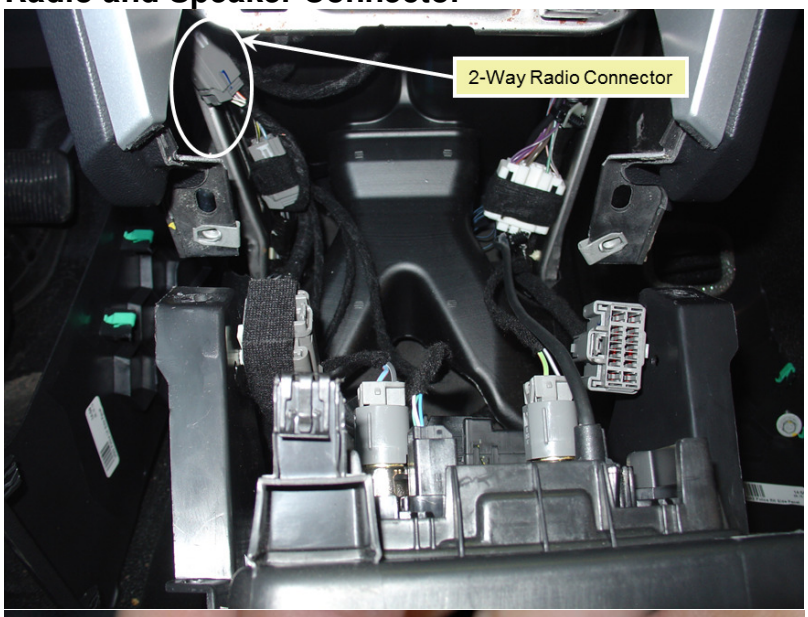
Pin #	Description	Fuse	Wire Color
1	B + Feed #1 (20A)	IP #2	GY-RD
2	Steering Wheel Switch #1 Output (1A) – Grnd	Gnrl Fnctn Module	GY-BN
3	Steering Wheel Switch #2 Output (1A) – Grnd	Gnrl Fnctn Module	WH-VT
4	Steering Wheel Switch #3 Output (1A) – Grnd	Gnrl Fnctn Module	GN-BN
5	Steering Wheel Switch #4 Output (1A) – Grnd	Gnrl Fnctn Module	YE-GY
6	Start (2 A)	BJB #95	BN-BU
7	Run/Start #1 (20 A)	BJB #73	WH-BN
8	B+ Feed #2 (20 A)	IP #32	BU-RD
9	Vehicle Speed Output (VSS)	PCM	VT-OG
10	Delay Accessory (15 A)	IP #17	GN-VT
11	B + Feed #3 (15 A)	IP #5	YE-RD
12	Park Detect Signal (Transmission)	Shifter – Grnd	GN
13	Driver Door Ajar Signal	IP #9-Grnd	GN-VT
14	Run/Start #2 (20 A)	IP #74	VT-BN

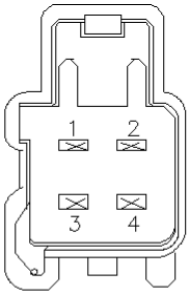
6-Way Front Power

Part #: 3U2Z-14S411-HEA

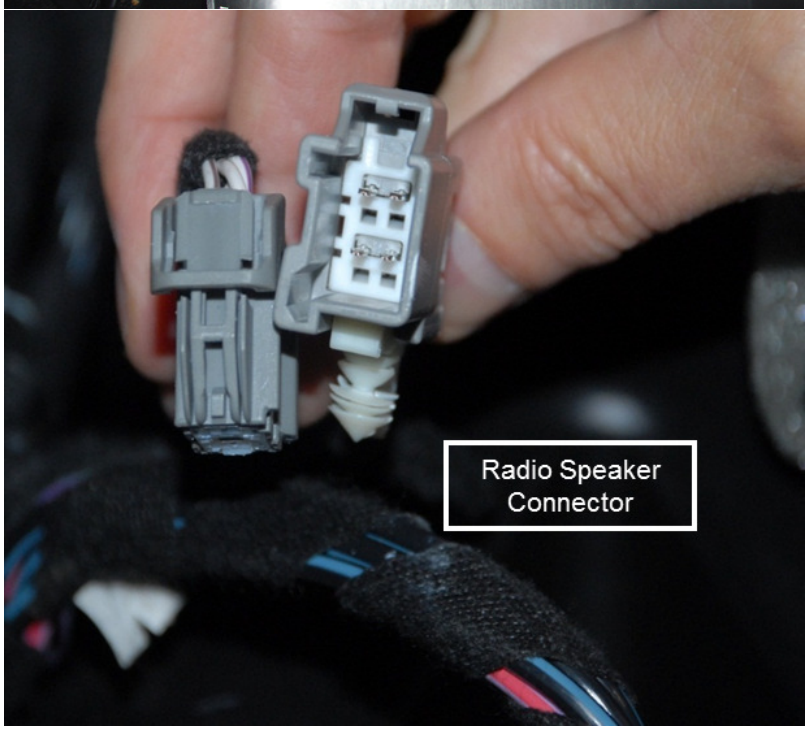
Pin #	Description	Fuse	Wire Color
1	B + (40 A)	BJB #40	VT-RD
2	B + (40 A)	BJB #6	BN-RD
3	B + (40 A)	BJB #16	VT-RD
4	Ground	IP Tunnel	BK-BU
5	Ground	IP Tunnel	BK-BU
6	Ground	IP Tunnel	BK-BU

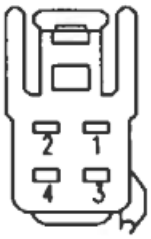
Radio and Speaker Connector





Part #: 3U2Z-14S411-BUB





Part #: 3U2Z-14S411-LUB

Pin #	Description
1	Driver Side Front Speaker (+)
2	Driver Side Front Speaker (-)
3	Passenger Side Front Speaker (+)
4	Passenger Side Front Speaker (+)

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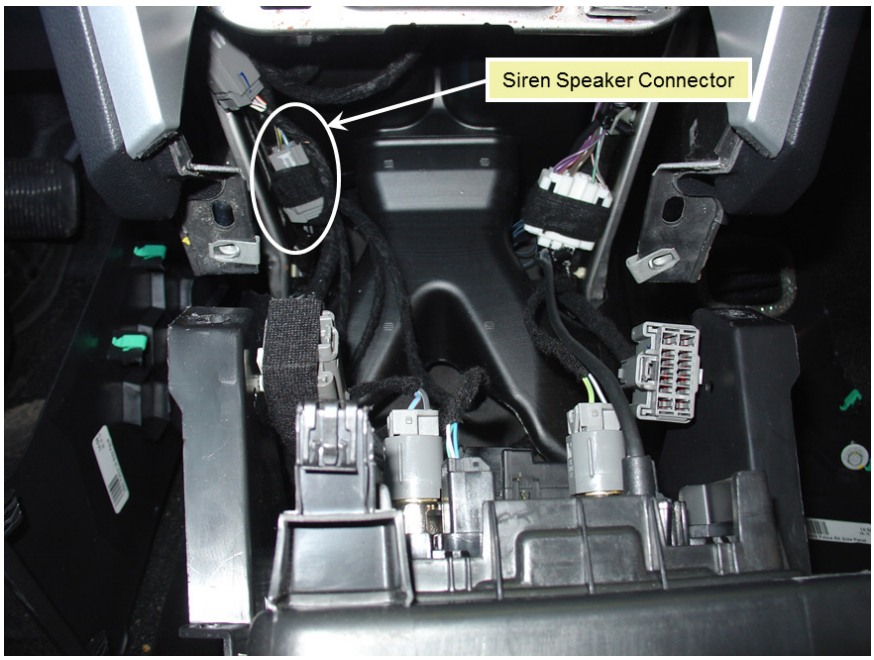
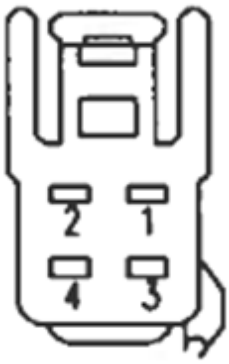
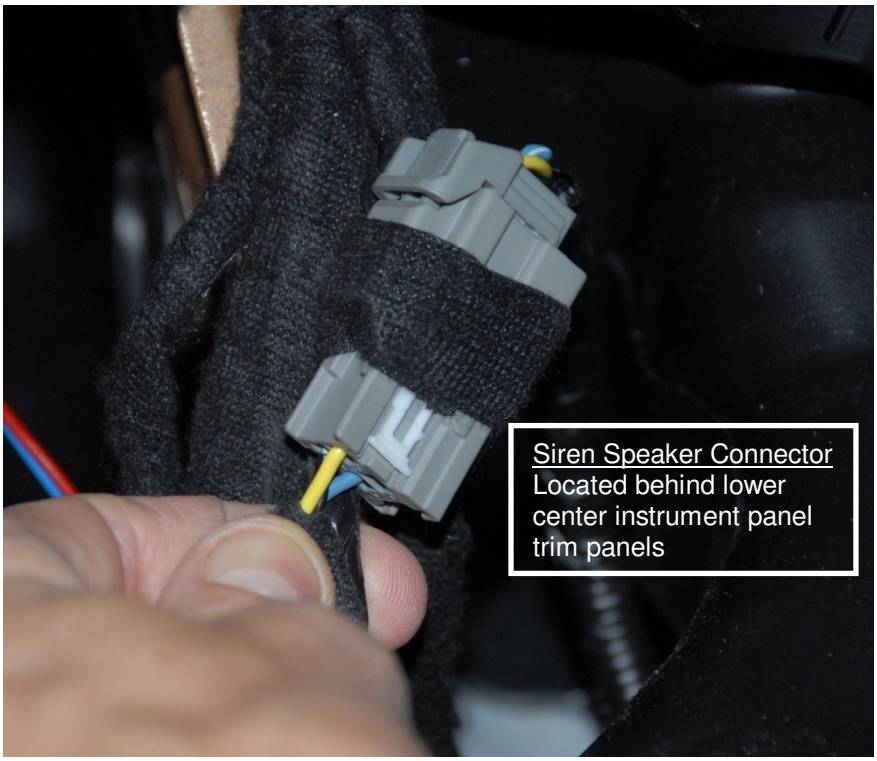
Siren Speaker Connector



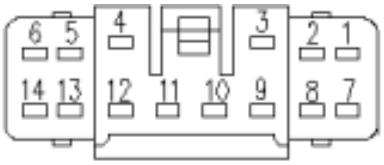


Part #: 3U2Z-14S411-LUB

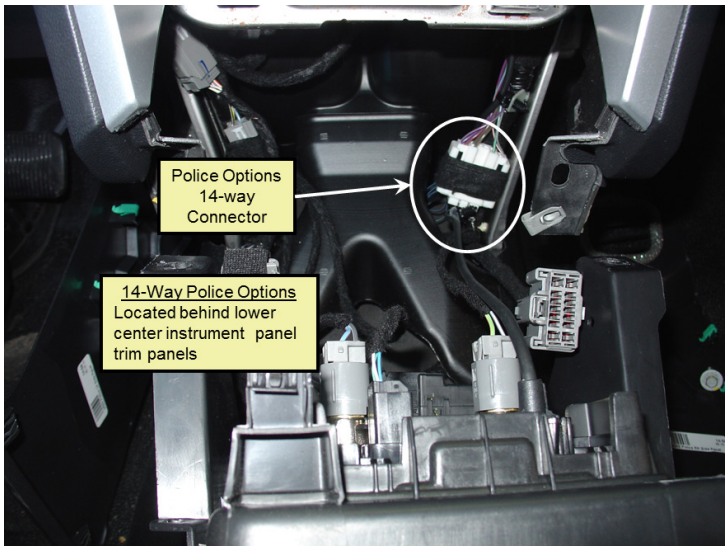


Pin #	Description	Wire Color
1	Siren Driver Side Feed (+)	YE
2	Siren Shield Driver Side (-)	
3	Open Pass Side Front (+)	
4	Siren Return Pass Side Front (-)	BU-WH

Police Options 14-Way Connector

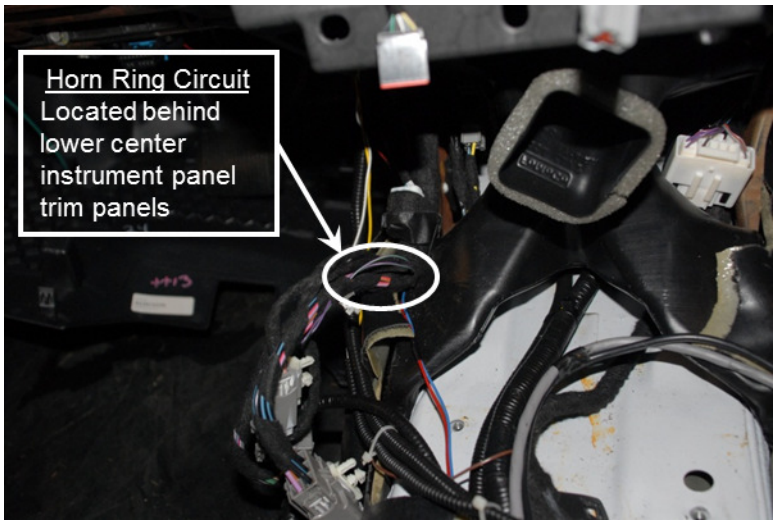


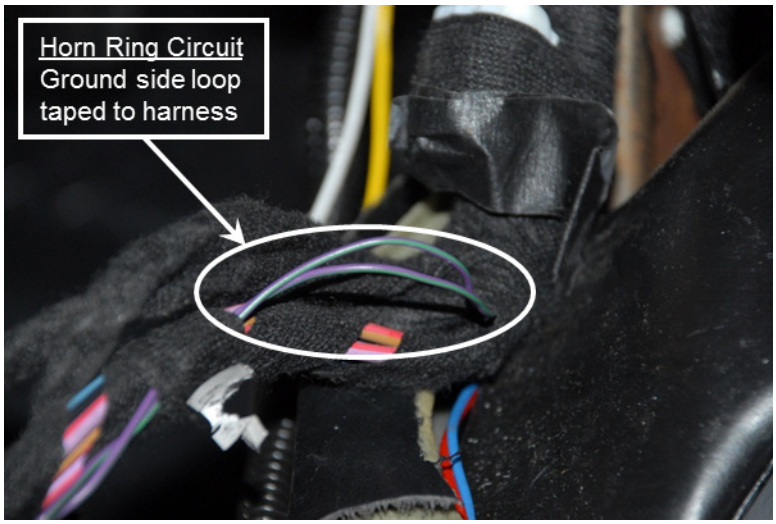
Part #: CU2Z-14S411-APA



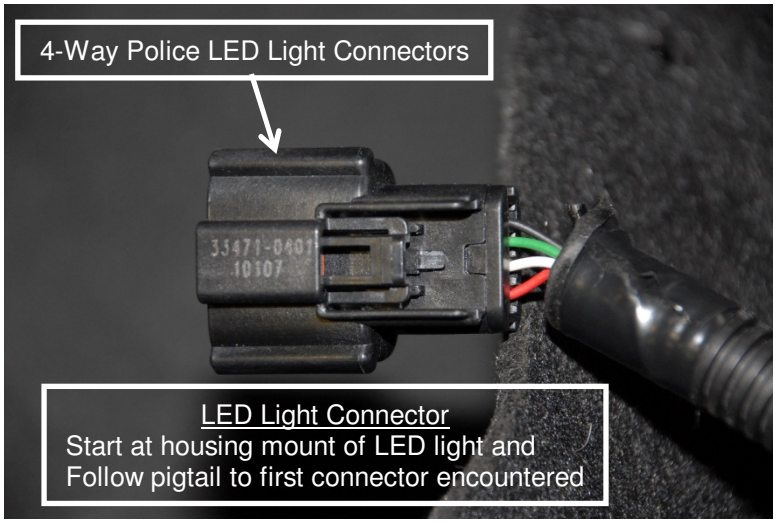
Pin #	Description	Wire Color
1	Wig-Wag Control	VT
2	Front Corner LED Power Control	VT-OG
3	Front Flasher Power Control	BN-YE
4	Speaker (-) at Grille (Option)	GN-BU
5	Open	
6	Front Corner LED Light Synch	GY-OG
7	Dimmer	VT-GY
8	Brake Output Signal – Ground	BU-OG
9	Speaker (+) at Grille (Option)	BN
10	Open	
11	Open	
12	Open	
13	Open	
14	LED Flash Pattern	GY-BN

- **Horn Ring Circuit,** ground side loop of horn ring circuit from Body Control Module (BCM) VT-GN wire loop taped to harness from above the opening in lower center instrument panel trim panels



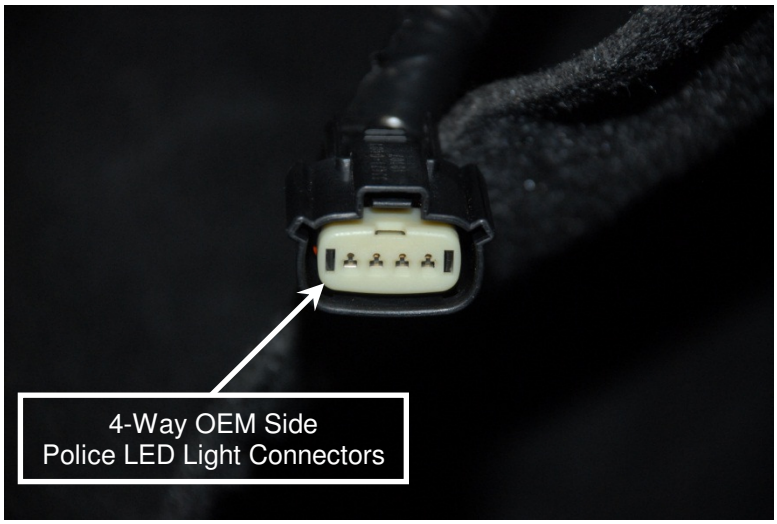


4-Way Connectors for ALL Police LED Light Heads

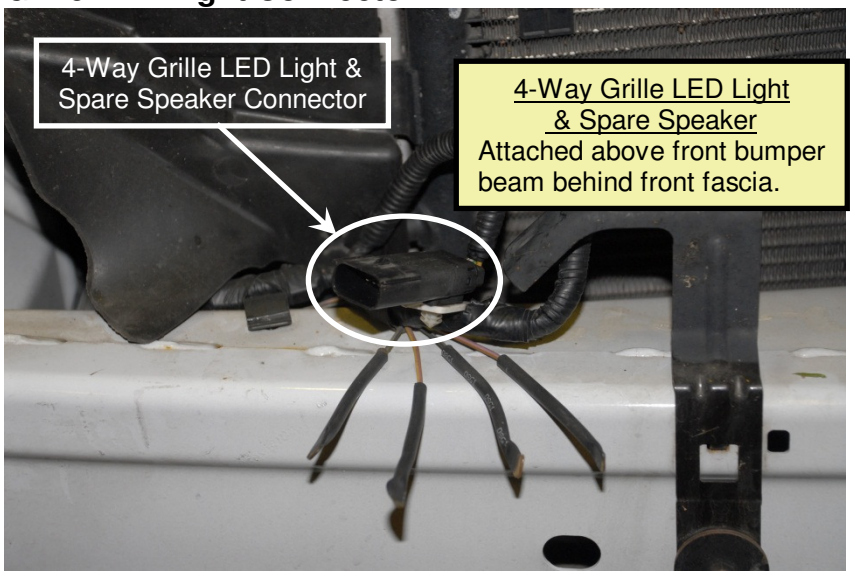

4-Way Police LED Light Connectors
LED Light Connector
Start at housing mount of LED light and
Follow pigtail to first connector encountered

Part #: 8U2Z-14S411-TA

Pin #	Description
1	Control Power
2	LED Light Pattern
3	LED Light Synch
4	Ground

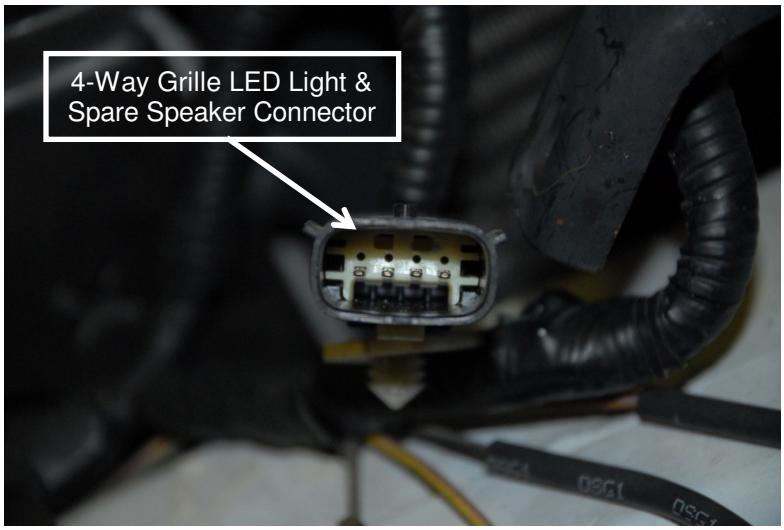


Grille LED Light Connector

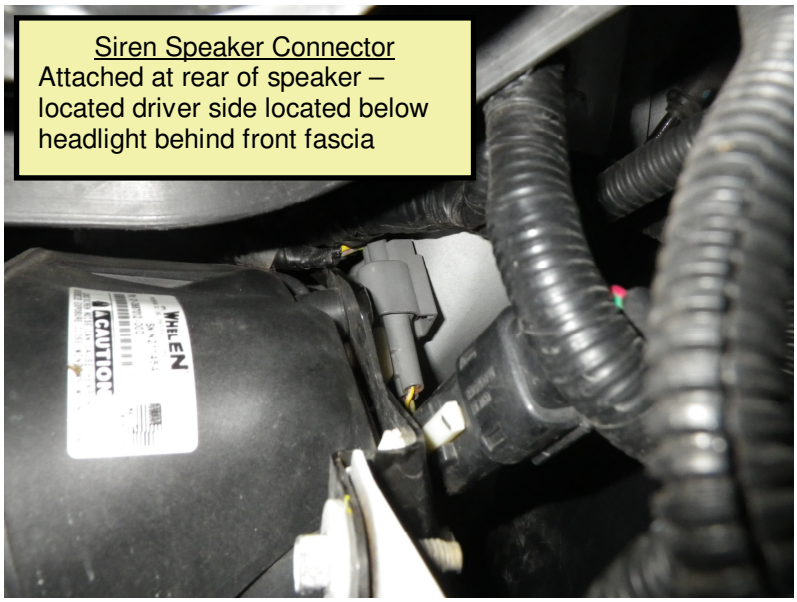


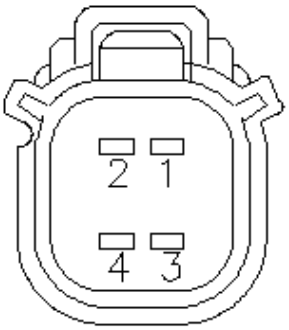
Part #: 8U2Z-14S411-TA

Pin #	Description	Wire Color
1	Grille LED Light Ground	BN
2	Grille LED Light Pattern	GY-BN
3	Speaker (-)	GY-OG
4	Speaker (+) - Spare	BK-GY



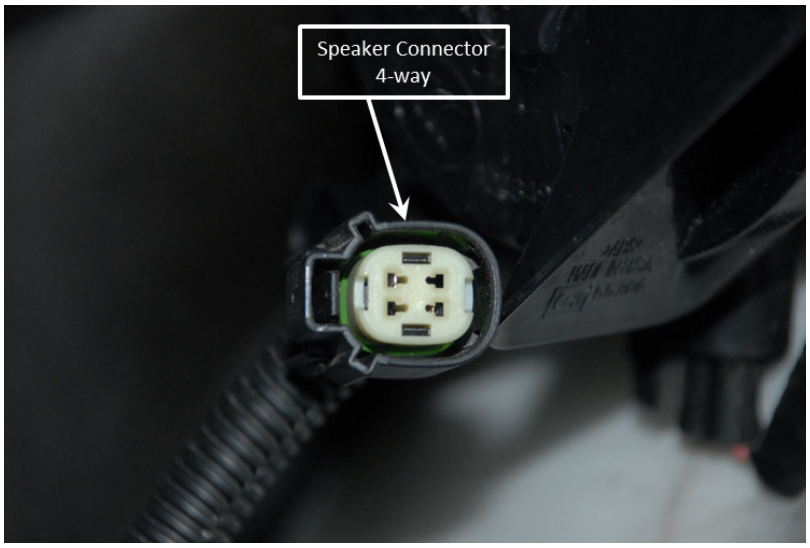
Siren Speaker - Connector Underhood



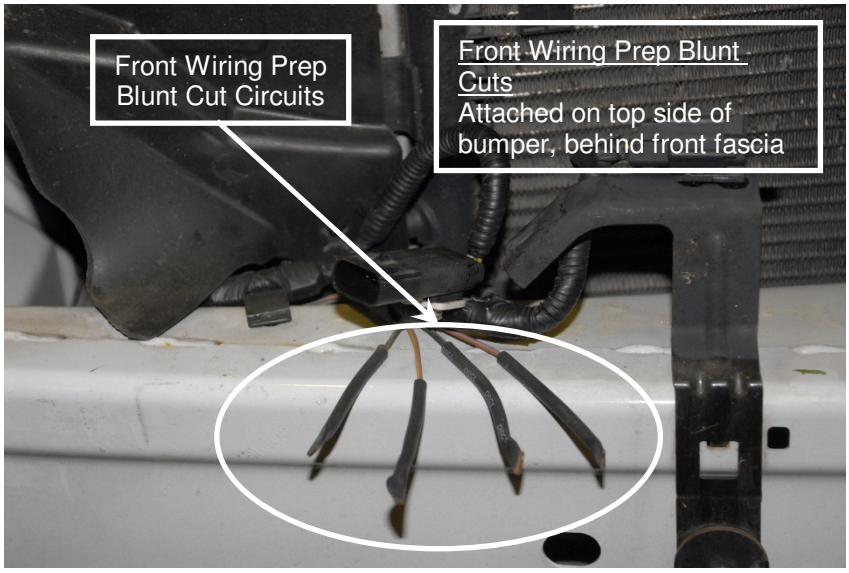


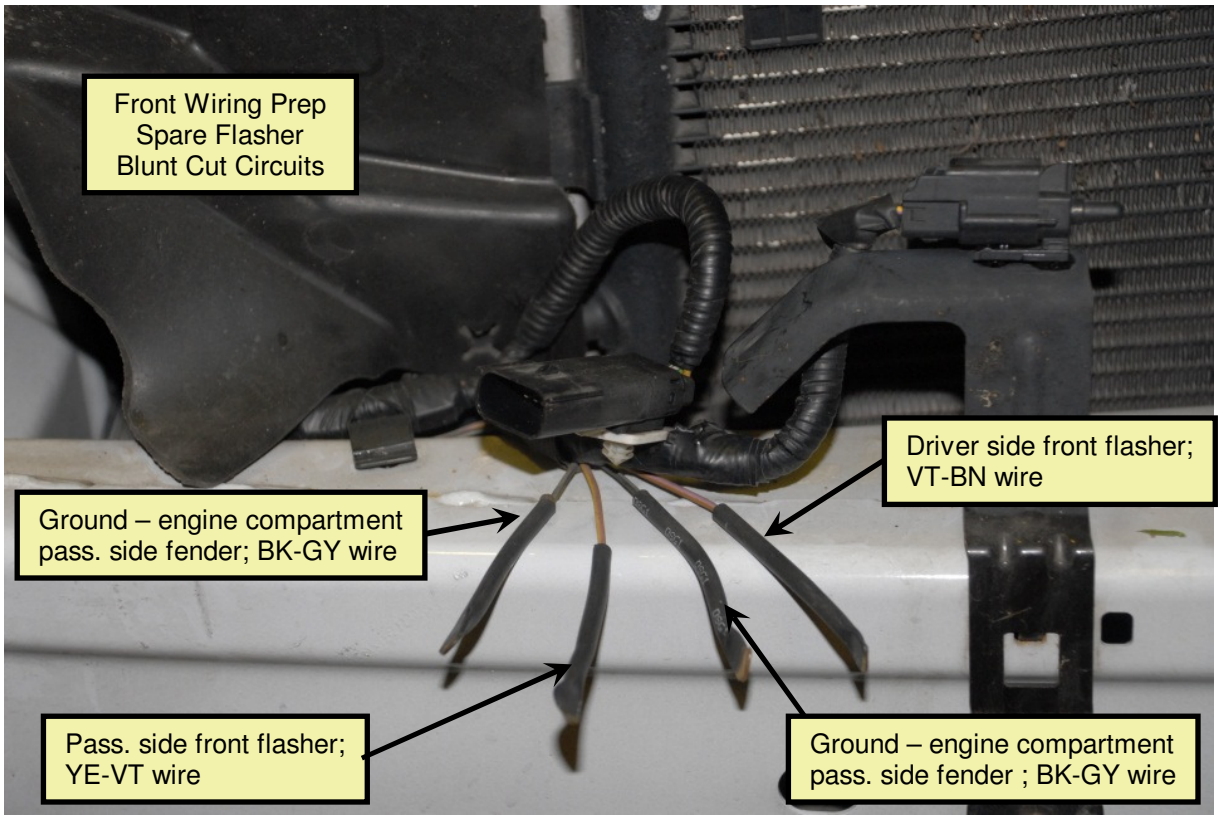
Part #: BU2Z-14S411-TA

Pin #	Description	Wire Color
1	Siren (+)	YE
2	Open	
3	Open	
4	Siren (-)	BU-WH

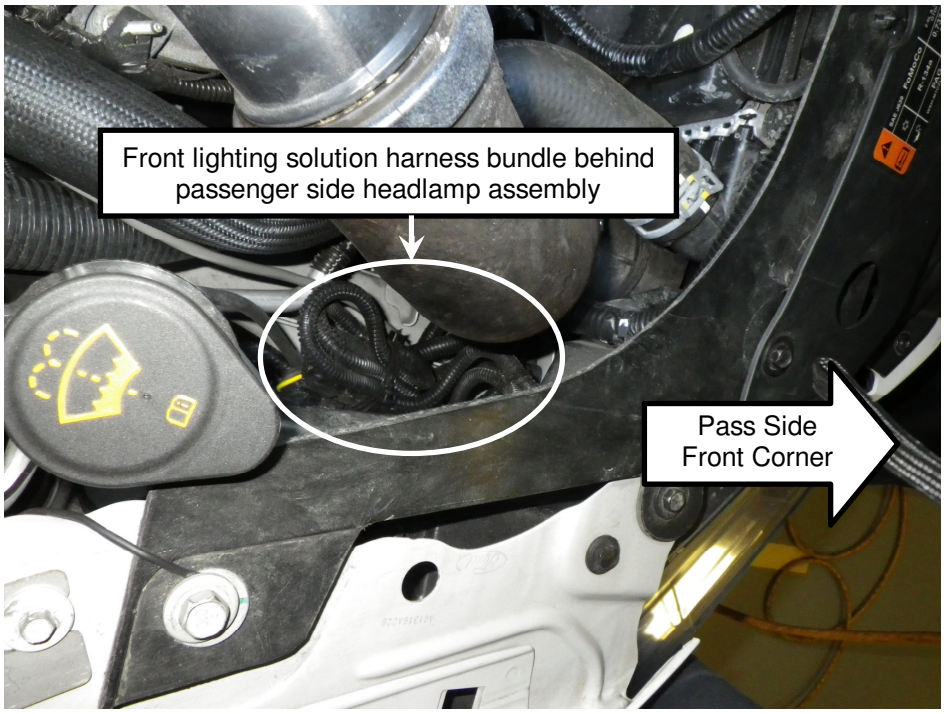


Front Wiring Prep Blunt Cut Circuits



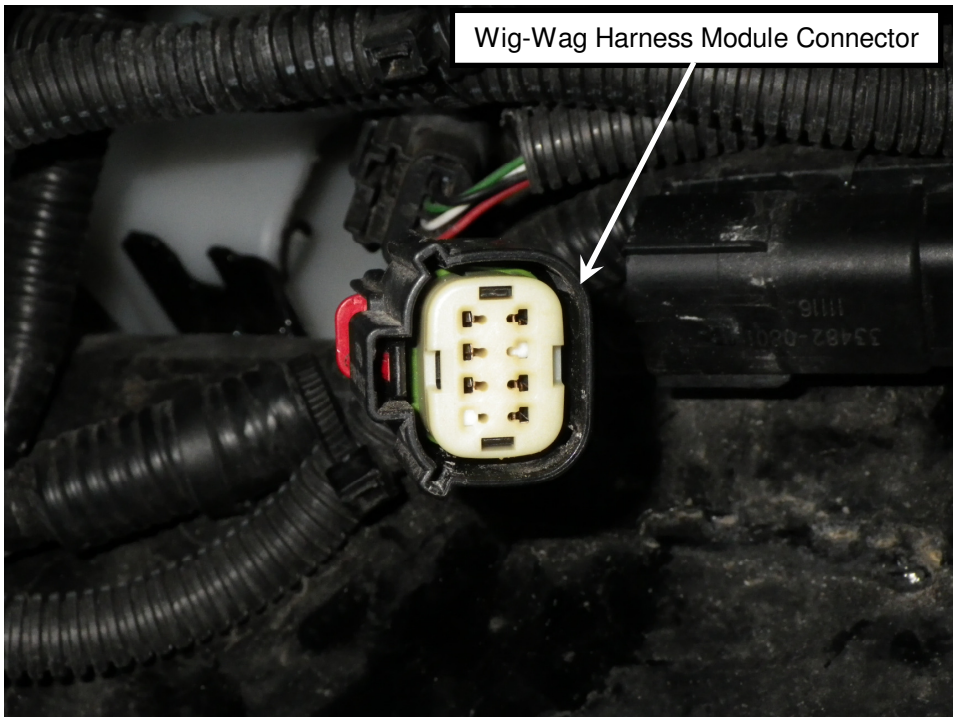

Front Wiring Prep Spare Flasher Blunt Cut Circuits
Driver side front flasher; VT-BN wire
Ground – engine compartment pass. side fender; BK-GY wire
Pass. side front flasher; YE-VT wire
Ground – engine compartment pass. side fender ; BK-GY wire

Front Lighting Solution - Wig-Wag LED and Front Corner LED Lights Connector



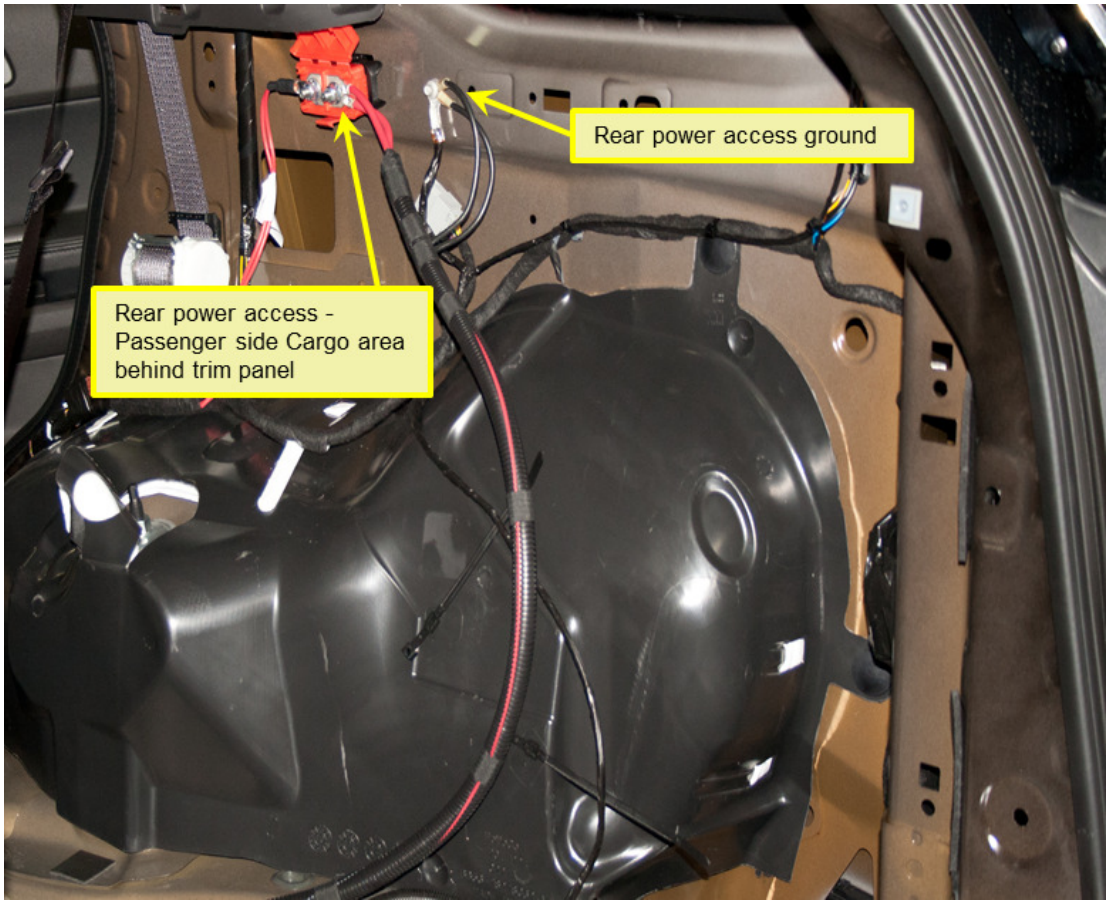
Part #: CU2Z-14S411-ALA

Pin #	Description	Fuse	Wire Color
1	Wig-Wag Control		VT
2	Wig-Wag Pass Side Pattern		GN-WH
3	Wig-Wag Driver Side Pattern		GY
4	Open		
5	Wig-Wag Run/Start (20 A)	BJB #74	VT-BN
6	Front Corner LED Lights Control/Power		
7	Front Corner LED Lights Pattern		GY-BN
8	Wig-Wag Ground		BK-GY



Rear Power Access – Two fused 50 Amp Lines from underhood Battery Junction Box (BJB)

- Feed from BJB #1 and #2



Ready-for-the-Road Option (67H) Content Description

LED Lights Flash Pattern Connector – 2-way connector with BN-GY wires enables flash pattern changes for *all front or all rear LEDs*(see next page for location and connector pin configuration)

- **This product contains either strobe light(s), halogen light(s), high-intensity LEDs or a combination of these lights. Do not stare directly into these lights. Momentary blindness and/or eye damage could result.**
- **See Whelen documentation for cleaning and care of the LED lens.**
- **FAILURE TO FOLLOW THESE PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**
-
- **Scan-Lock / Flash Pattern Change**

- A normally open momentary switch should be used to control Scan-Lock operation.

- To change flash pattern for all police LED lights on *rear* of vehicle at once:

- *In order to program flash patterns, the light head must be on. With the appropriate light heads activated:*
- **TO CHANGE PATTERNS:** To advance to the next available pattern apply +12VDC to pin #1for less than 1 second and release. To cycle back to the previous pattern apply +12VDC to pin #1 for more than 1 second and release.
- **TO CHANGE THE DEFAULT PATTERN:** When the desired pattern is displayed, allow it to run for more than 5 seconds. The light head will now display this pattern when initially activated.
- **TO RESTORE THE FACTORY DEFAULT PATTERN:** This will reset all patterns back to their default settings. With the light turned off, apply power to the pin #1. With power applied to pin #1, turn light on. Allow the unit to run for 3 seconds before removing power from pin #1.
- To change flash pattern for all police LED lights on front of vehicle at once, repeat above process using pin #2

- The following is a list of all the available flash patterns:

SYNC Patterns

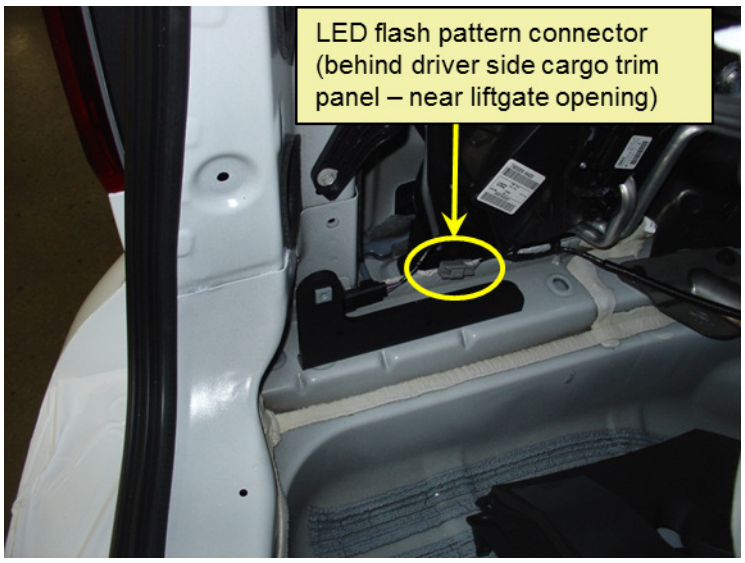
1. SignalAlert™75 PH.1
2. SignalAlert 75 PH.2
3. CometFlash®75 PH.1
4. CometFlash 75 PH.2
5. DoubleFlash 75 PH.1
6. DoubleFlash 75 PH.2
7. SingleFlash 75 PH.1
8. SingleFlash 75 PH.2
9. ComAlert™ PH.1
10. ComAlert PH.2
11. LongBurst™ PH.1
12. LongBurst PH.2
13. PingPong™ PH.1
14. PingPong PH.2

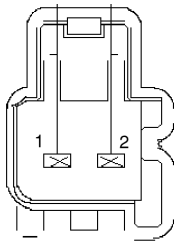
Non-SYNC Patterns

15. SingleFlash 60
16. SingleFlash 90
17. SingleFlash 120
18. SingleFlash 300
19. DoubleFlash 150
20. ComAlert 150
21. ActionFlash™1
22. ActionFlash 2
23. ModuFlash™
24. ActionScan™
25. Steady

Phase Operation
Phase 1 (PH. 1) flashes simultaneously with PH. 1
Phase 2 (PH. 2) flashes simultaneously with PH. 2
PH. 1 alternates with PH. 2

Ready-for-the-Road Option (67H) Content Description





Part #: 3U2Z-14S411-LAB

Pin #	Description	Wire Color
1	Rear LED Lights Flash Pttrn	GY-BN
2	Front LED Lights Flash Pttrn	GY-BN

Ready-for-the-Road Option (67H) Content Description

- **Change flash pattern *for individual LED* light heads:**
  - Locate the 4-way connector for LED light (see next page for procedure)

Part #: 8U2Z-14S411-TA

Pin #	Description	Wire Color
1	Control	VT-OG
2	Scan-Lock/Flash Pattern	GY-BN
3	Synch	GY-OG
4	Ground	BK-GY

Scan-Lock / Flash Pattern Change

- A normally open momentary switch should be used to control Scan-Lock operation.

- To change flash pattern for individual police LED lights on *rear* of vehicle at once:

- *In order to program flash patterns, the light head must be on. With the appropriate light head activated:*
- **TO CHANGE PATTERNS:** To advance to the next available pattern apply +12VDC to pin #2 for less than 1 second and release. To cycle back to the previous pattern apply +12VDC to pin #2 for more than 1 second and release.
- **TO CHANGE THE DEFAULT PATTERN:** When the desired pattern is displayed, allow it to run for more than 5 seconds. The light head will now display this pattern when initially activated.
- **TO RESTORE THE FACTORY DEFAULT PATTERN:** This will reset all patterns back to their default settings. With the light turned off, apply power to the pin #2. With power applied to pin #2, turn light on. Allow the unit to run for 3 seconds before removing power from pin #2.

- The following is a list of all the available flash patterns:

SYNC Patterns

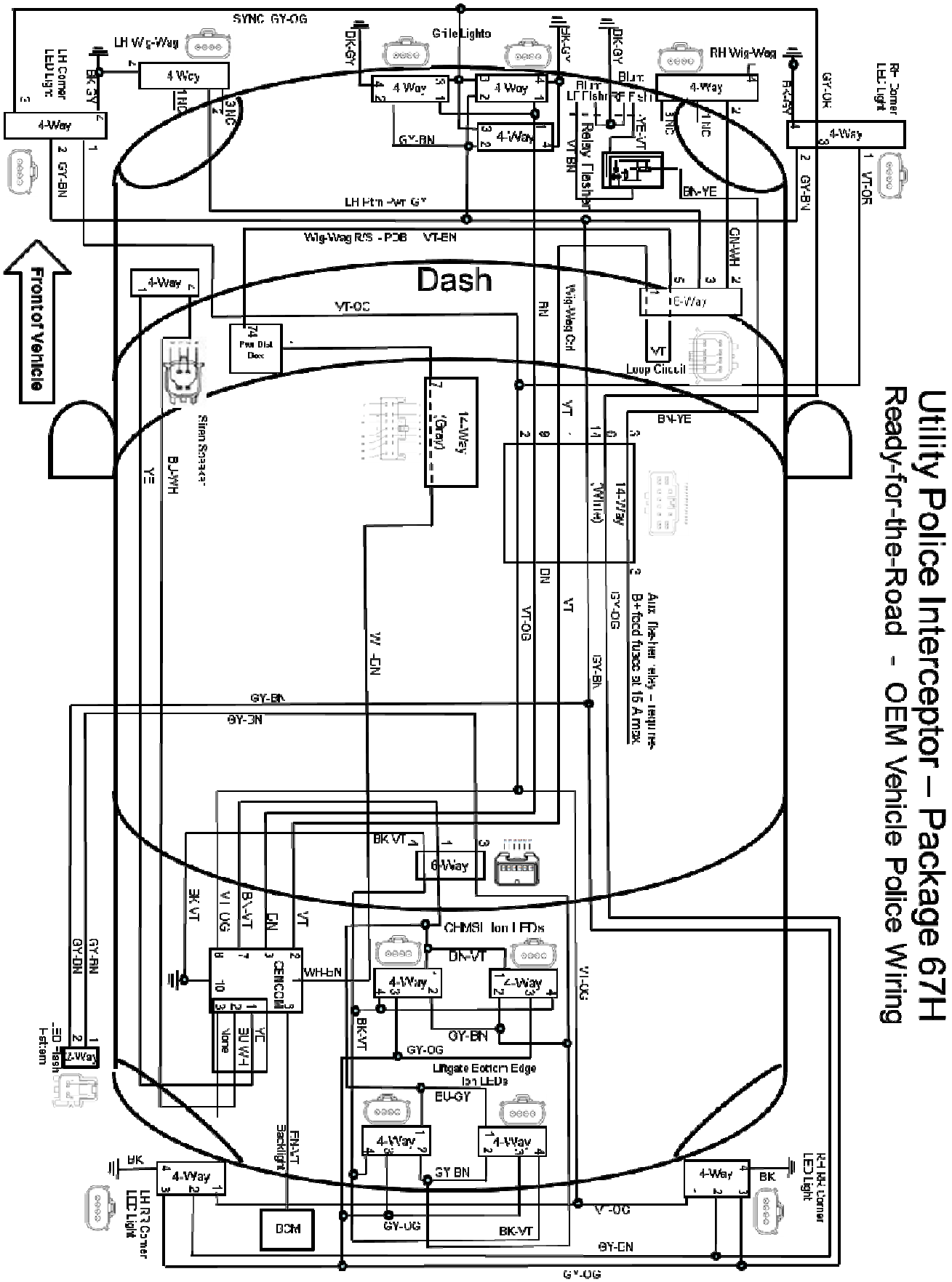
1. SignalAlert™75 PH.1
2. SignalAlert 75 PH.2
3. CometFlash®75 PH.1
4. CometFlash 75 PH.2
5. DoubleFlash 75 PH.1
6. DoubleFlash 75 PH.2
7. SingleFlash 75 PH.1
8. SingleFlash 75 PH.2
9. ComAlert™ PH.1
10. ComAlert PH.2
11. LongBurst™ PH.1
12. LongBurst PH.2
13. PingPong™ PH.1
14. PingPong PH.2

Phase Operation

Phase 1 (PH. 1) flashes simultaneously with PH. 1
Phase 2 (PH. 2) flashes simultaneously with PH. 2
PH. 1 alternates with PH. 2

Non-SYNC Patterns

15. SingleFlash 60
16. SingleFlash 90
17. SingleFlash 120
18. SingleFlash 300
19. DoubleFlash 150
20. ComAlert 150
21. ActionFlash™1
22. ActionFlash 2
23. ModuFlash™
24. ActionScan™
25. Steady



If you have any questions, please contact the Ford Truck Body Builders Advisory Service as shown in the header of this bulletin.